DOCKET NO.: BELL-0116/01114 PATENT

Application No.: 09/961,078

Office Action Dated: April 29, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for inventorying a <u>switch fabric in a</u> broadband access network multiplexing element-<u>switch fabric</u>, the multiplexing element comprising a managed element in a broadband access network management system coordinated by a network manager, comprising:

establishing communication with an element manager from a remote location, the element manager comprising an intermediary between the network manager and the multiplexing element;

gathering status information for the multiplexing element by issuing a first interface retrieve command to the element manager from the remote location; and

gathering status information for the <u>switch</u> fabric [[structure]] by issuing a second interface retrieve command to the multiplexing element from the remote location.

- 2. (Original) The method of claim 1 wherein the establishing communication with the element manager from the remote location comprises establishing a TCP/IP session with the element manager.
- 3. (Original) The method of claim 2 wherein the establishing the TCP/IP session with the element manager comprises establishing a terminal emulation protocol session with the element manager.
- 4. (Original) The method of claim 3 wherein the establishing the terminal emulation protocol session with the element manager comprises establishing a telnet session with the element manager.
- 5. (Original) The method of claim 2 wherein the establishing the TCP/IP session with the element manager comprises establishing a TCP/IP session via an unassigned port.

PATENT

DOCKET NO.: BELL-0116/01114 **Application No.:** 09/961,078

Office Action Dated: April 29, 2005

- 6. (Original) The method of claim 1 wherein the gathering status information for the multiplexing element comprises gathering a network address for the multiplexing element.
- 7. (Original) The method of claim 6 wherein the gathering the network address for the multiplexing element comprises gathering a cilli code for the multiplexing element.
- 8. (Original) The method of claim 1 wherein the issuing the first and second interface retrieve commands comprise issuing protocol-independent interface retrieve commands.
- 9. (Original) The method of claim 8 wherein the issuing the protocol-independent interface retrieve commands comprise issuing transport level interface retrieve commands.
- 10. (Original) The method of claim 1 wherein the gathering the status information for the switch fabric comprises determining a number of logical cross-connects in the multiplexing element.
- 11. (Original) The method of claim 10 wherein the gathering the status information for the switch fabric further comprises gathering a logical cross-connect type for each of the logical cross-connects in the multiplexing element.
- 12. (Original) The method of claim 1 further comprising the step of storing the status information in a memory.
- 13. (Original) The method of claim 1 further comprising the step of producing a report based on the status information.

DOCKET NO.: BELL-0116/01114 **PATENT**

Application No.: 09/961,078

Office Action Dated: April 29, 2005

The method of claim 1 wherein the multiplexing element 14. (Original) comprises a first multiplexing element in a plurality of multiplexing elements managed by the element manager, further comprising repeating the gathering status information for the switch fabric step for each remaining multiplexing element in the plurality of multiplexing elements.

- The method of claim 14 wherein the element manager 15. (Original) comprises a first element manager in a plurality of element managers comprising nodes in the access network, further comprising repeating the gathering status information for the element manager step for each remaining element manager in the plurality of element managers.
- A system for inventorying a broadband access network 16. (Currently Amended) multiplexing element switch fabric, comprising:

an element manager, the element manager comprising an intermediary between a network manager and the multiplexing element;

a first communications path between the element manager and the multiplexing element, the first communications path carrying information and control commands between the element manager and the multiplexing element;

an inventory tool at a location remote from the element manager, the inventory tool generating switch fabric inventory commands and compiling switch fabric inventory [[status]] information received in response to the switch fabric inventory commands; and

a second communications path between the inventory tool and the element manager, the second communications path carrying the switch fabric inventory commands and switch fabric inventory [[status]] information between the inventory tool and the element manager.

- 17. (Original) The system of claim 16 wherein the inventory tool comprises a software client running on a computer.
- The system of claim 17 wherein the software client 18. (Currently Amended) includes a TCP/IP stack and the first communications path comprises a TCP/IP link.

DOCKET NO.: BELL-0116/01114 **Application No.:** 09/961,078

Office Action Dated: April 29, 2005

- 19. (Original) The system of claim 18 wherein the TCP/IP link comprises a terminal emulation protocol link.
- 20. (Original) The system of claim 19 wherein the terminal emulation protocol link comprises a telnet link.
- 21. (Original) The system of claim 18 wherein the TCP/IP link comprises a TCP/IP link utilizing an unassigned port.
- 22. (Original) The system of claim 16 wherein the inventory commands generated by the inventory tool comprise interface retrieve commands.
- 23. (Original) The system of claim 22 wherein the interface retrieve commands generated by the inventory tool comprise protocol-independent interface retrieve commands.
- 24. (Original) The system of claim 22 wherein the interface retrieve commands generated by the inventory tool comprise transport level interface retrieve commands.
- 25. (Currently Amended) The system of claim 16 wherein the <u>switch fabric</u> inventory [[status]] information returned in response to the inventory commands comprises a number of logical cross-connects in the switch fabric.
- 26. (Currently Amended) The system of claim 25 wherein the <u>switch fabric</u> inventory [[status]] information returned in response to the inventory commands further comprises a logical cross-connect type.
- 27. (Currently Amended) A system for inventorying a broadband access network multiplexing element switch fabric, comprising:

DOCKET NO.: BELL-0116/01114 PATENT

Application No.: 09/961,078

Office Action Dated: April 29, 2005

means for establishing communication with an element manager from a remote location, the element manager comprising an intermediary between a network manager and the multiplexing element;

means for gathering status information for the multiplexing element by issuing a first interface retrieve command to the element manager from the remote location; and

means for gathering <u>switch fabric inventory</u> [[status]] information for the fabric structure <u>of the multiplexing element</u> by issuing a second interface retrieve command to the multiplexing element from the remote location.